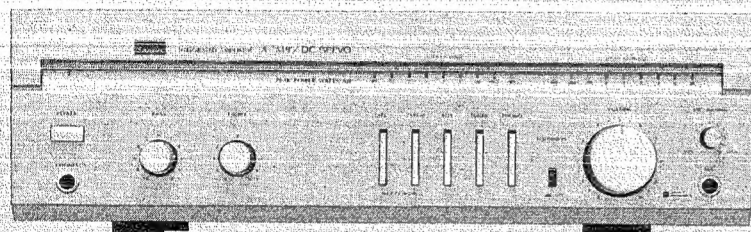


SERVICE MANUAL

INTEGRATED AMPLIFIER

SANSUI A-M9



• SPECIFICATIONS

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz,
with no more than 0.07 % total harmonic distortion
70 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.07 % at or below rated
min. RMS power output

Frequency response (at 1 watt)

. 10 to 60,000 Hz/+0.5 dB, -2 dB

RIAA curve deviation (PHONO, 30 Hz to 20 kHz)

. +0.5 dB, -0.5 dB

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms

(Max. input capability; 150 mV at 1 kHz, less than
0.1 % total harmonic distortion)

AUX, TUNER, TAPE PLAY

. 150 mV/47 kilohms

MIC 0.5 mV/10 kilohms

Output level (1 kHz)

TAPE REC 130 mV into 47 kilohms

Signal to noise ratio (short-circuit, A-network)

PHONO 72 dB

AUX, TUNER, TAPE PLAY

. 100 dB

Power requirements

Power voltage 120/220/240 V (50/60 Hz)

For U.S.A. & Canada

. 120 V (60 Hz)

Power consumption

. 230 watts 280 VA Rated
290 watts Maximum

Dimensions 345 mm (13-9/16") W

105 mm (4-7/8") H

248 mm (9-3/4") D

Weight 4.8 kg (10.6 lbs.) net

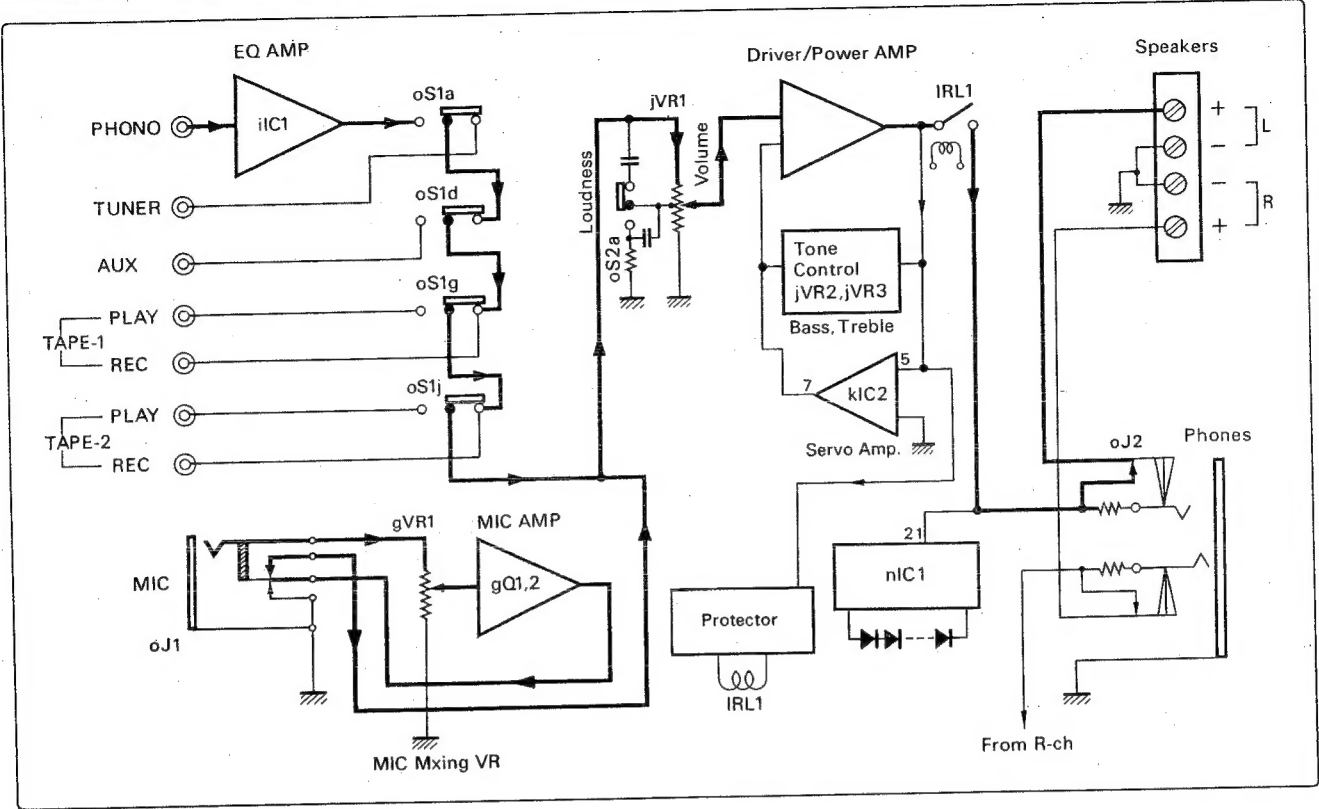
5.4 kg (11.9 lbs.) packed

* Design and specifications subject to changes without notice for improvements.

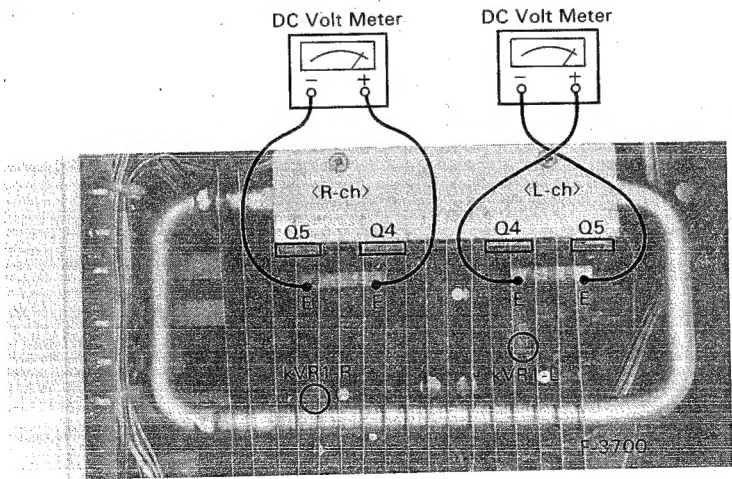
Sansui

SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM



2. BIAS CURRENT ADJUSTMENT (Refer to picture below)



Note:

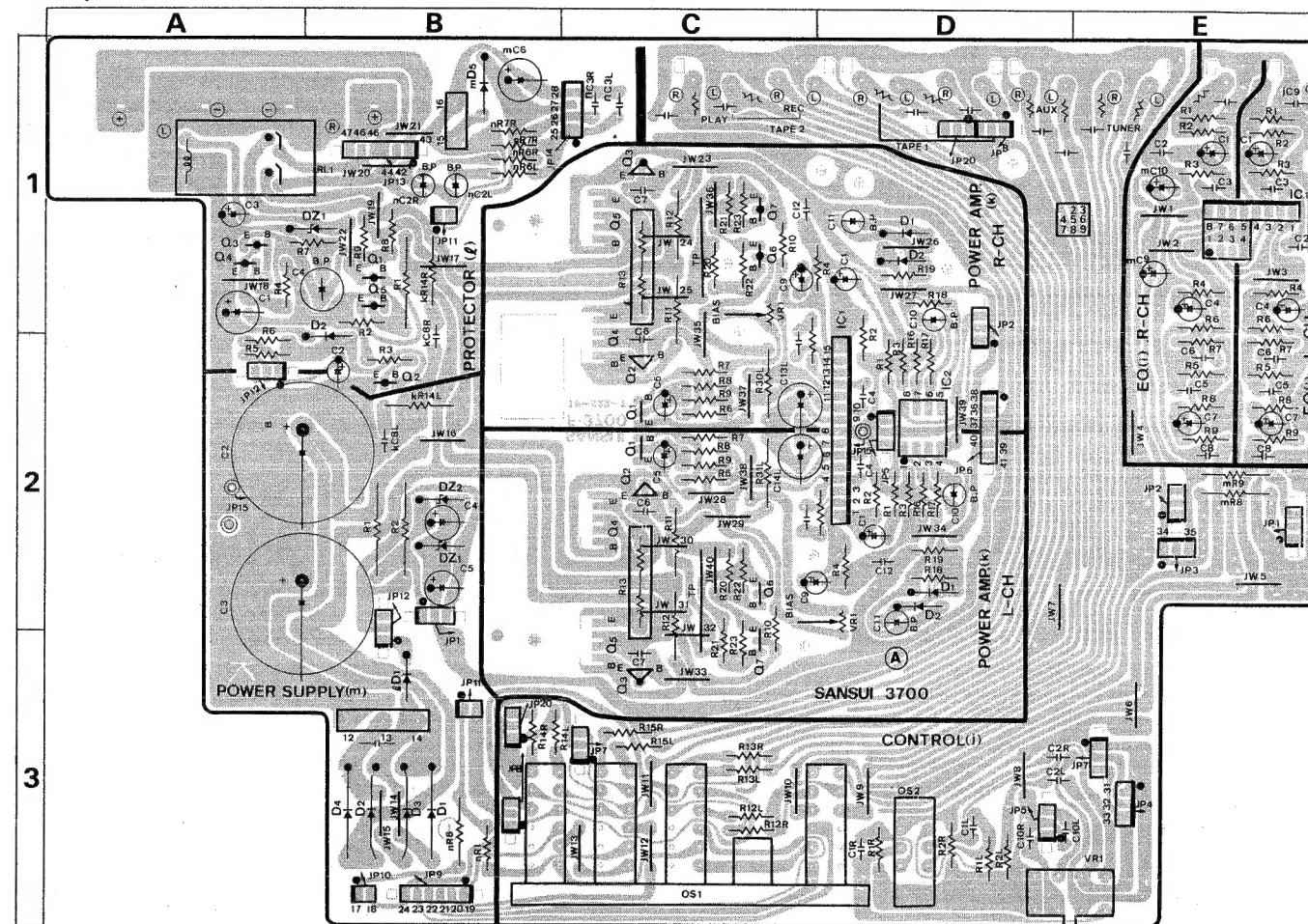
1. Room Temperature 18°C ~ 38°C
2. For adjustment, run the unit for more than 3 minutes after the power is switched on.
3. Before turning ON POWER switch, turn kVR1 on F-3700 fully counterclockwise.

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	L-CH	Connect DC volt meter between emitters of kQ4, kQ5 on F-3700	kVR1 (L-CH) F-3626	DC 3mV	This bias current adjustment converts current value into voltage by ohms law.
2.	R-CH	Same as above	kVR1 (R-CH) F-3626	DC 3 mV	

3. PARTS LOCATION & PARTS LIST

3-1. F-3700 EQ Amp./Power Amp. Circuit (Stock No. 00686601)

Component Side



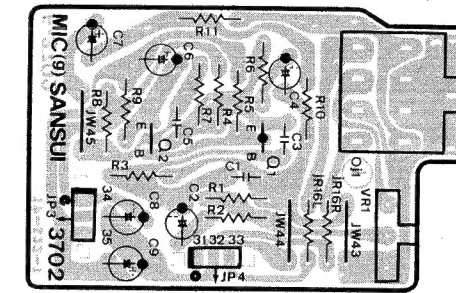
Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
jVR1	46170200	100k Ω (B) x 2 VR, VOLUME	•Transistor			mC2	08301800	6800 μ F 63V E.C.
•Transistor			IQ1	03010901	2SA992	mC3	08301800	6800 μ F 63V E.C.
kQ1	03067401	2SC1845	IQ2	07194701	2SA1015	oS1	46164800	Push SW, SELECTOR
kQ2	07206401	2SD600	IQ3	07194701	2SA1015	oS2	46164900	Push SW, LOUDNESS
kQ3	07206301	2SB631	IQ4	07194701	2SA1015		07249000	2P Input Terminal Board
kQ4	46085301	2SC2581	IQ5	03010901	2SA992		07249100	4P Input Terminal Board
or 07203301		2SC2579	•Diode				46118300	Speaker Terminal Board
kQ5	46085401	2SA1106	ID1	03117600	1S2473D	•IC		
or 07203201		2SA1104	ID2	03117600	1S2473D	iIC1	46078900	M5218L
kQ6	07194801	2SC1815	•Zener Diode					
kQ7	07194701	2SA1015	IDZ1	03180200	RD24E-B			
•IC			IR1	00186300	1.2k Ω 2W N.I.R.			
kIC1	46253800	STK3082	IC4	08460200	220 μ F 6.3V E.C.			
kIC2	03607700	NJM4558D	IRL1	46254900	Relay			
kR13	00091700	0.33 Ω x 2 5W Ce.R.	•Diode					
kR14	00179000	10 Ω 1W N.I.R.	mD1~4	03115300	30D-2			
kC10	08450900	4.7 μ F 16V E.B.	•Zener Diode					
kC11	08450100	10 μ F 6.3V E.C.	mDZ2	03180000	RD22E-B			
kC13	46306200	10 μ F 6.3V E.C.	mR1	00187400	1.8k Ω 2W N.I.R.			
kC14	46306200	10 μ F 6.3V E.C.	mR2	00187400	1.8k Ω 2W N.I.R.			
kVR1	07240900	500 Ω (B) SVR, bias						

•Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

3-2. F-3702 Mic Amp. Circuit Board (Stock No. 00686801)

Component Side

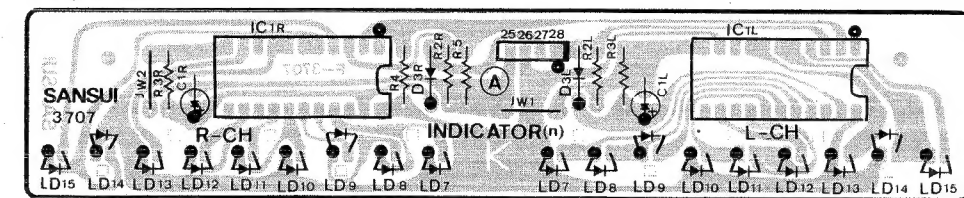


Parts List

Parts No.	Stock No.	Description
oJ1	46164600	Jack, MIC
•Transistor		
gQ1	03010901	2SA992
gQ2	07225401	2SC2320L
gC5	46137800	680pF 50V C.C.
gVR1	07106701	20k Ω (A) SVR, MIC MIXING

3-3. F-3707 Level Indicator Circuit Board (Stock No. 00687301)

Component Side



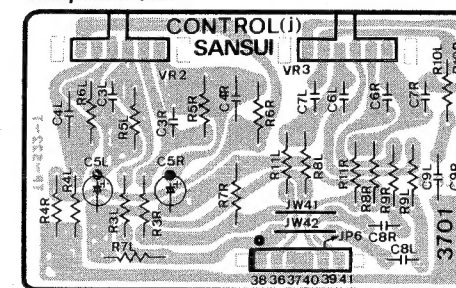
Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
•IC			nLD7~15	46169300	Light Emitting Diode SEL-1210S
nIC1	07246000	IR2431	nC2	08451700	1 μ F 50V E.B.
•Diode					
nD3	03103300	1N60			

•Note: The circuit board, F-3701, F-3703, F-3704, F-3705 & F-3706 are not supplied as the assembled. However, the individual parts on the circuit board are provided by orders.

3-4. F-3701 Tone Control Circuit Board

Component Side



Parts List

Parts No.	Stock No.	Description
jVR2, 3	46254800	50k Ω (C) VR, BASS, TREBLE
jC6	46137800	680pF 50V C.C.

3-6. F-3704 Indicator Circuit Board

Parts List

Parts No.	Stock No.	Description
nLD1~5	46095200	Light Emitting Diode TLR123

3-7. F-3705 Power Fuse Circuit Board

Parts List

Parts No.	Stock No.	Description
pF1	07189100	Fuse 5A (120V)
	07188700	Fuse 2.5A (240V)

3-8. F-3706 Power Indicator Circuit Board

Parts List

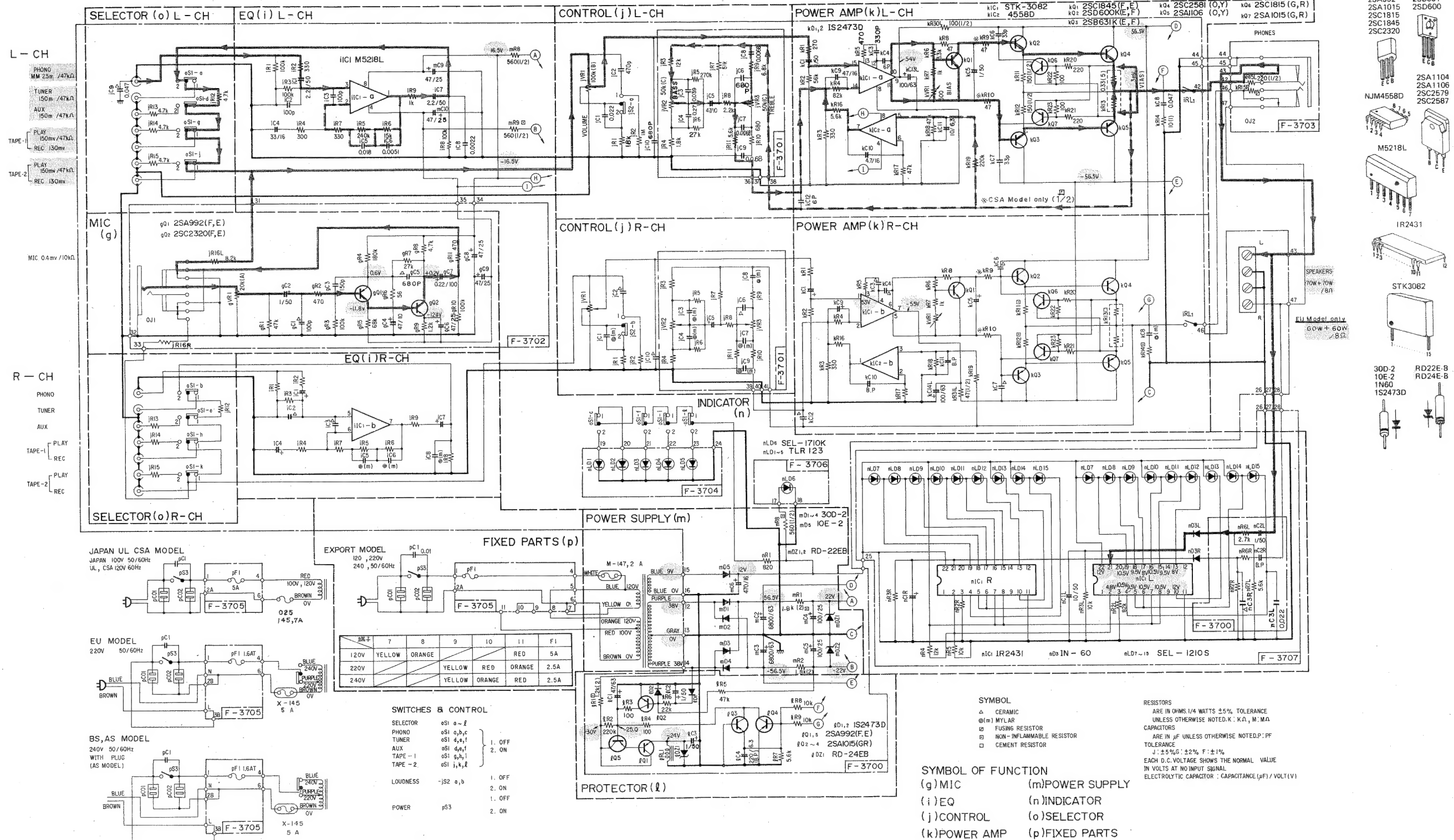
Parts No.	Stock No.	Description
nLD6	07209100	Light Emitting Diode

• Abbreviations

C.R. : Carbon Resistor	E.B. : Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	E.B.L. : Low Leak Bi-Polar Electrolytic Capacitor
Ca.R. : Cement Resistor	F.C. : Film Capacitor
M.R. : Metal Film Resistor	Ta.C. : Tantalum Capacitor
F.R. : Fusing Resistor	F.C. : Film Capacitor
N.I.R. : Non-Inflammable Resistor	M.P. : Metalized Paper Capacitor
C.C. : Ceramic Capacitor	P.C. : Polystyrene Capacitor
C.T. : Ceramic Capacitor, Temperature Compensation	G.C. : Gimmic Capacitor
E.C. : Electrolytic Capacitor	V.R. : Variable Resistor
E.L. : Low Leak Electrolytic Capacitor	S.V.R. : Semi Variable Resistor
	SW. : Switch

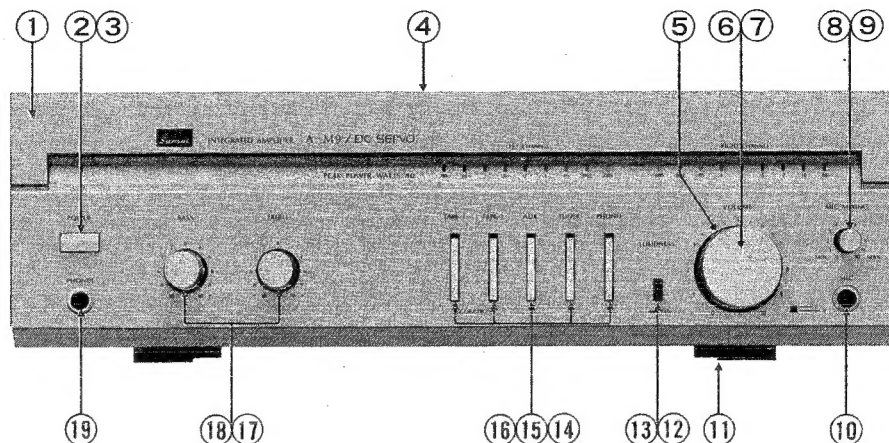
4. SCHEMATIC DIAGRAM

* Design and specifications subject to change without notice for improvement.
 * La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 * Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

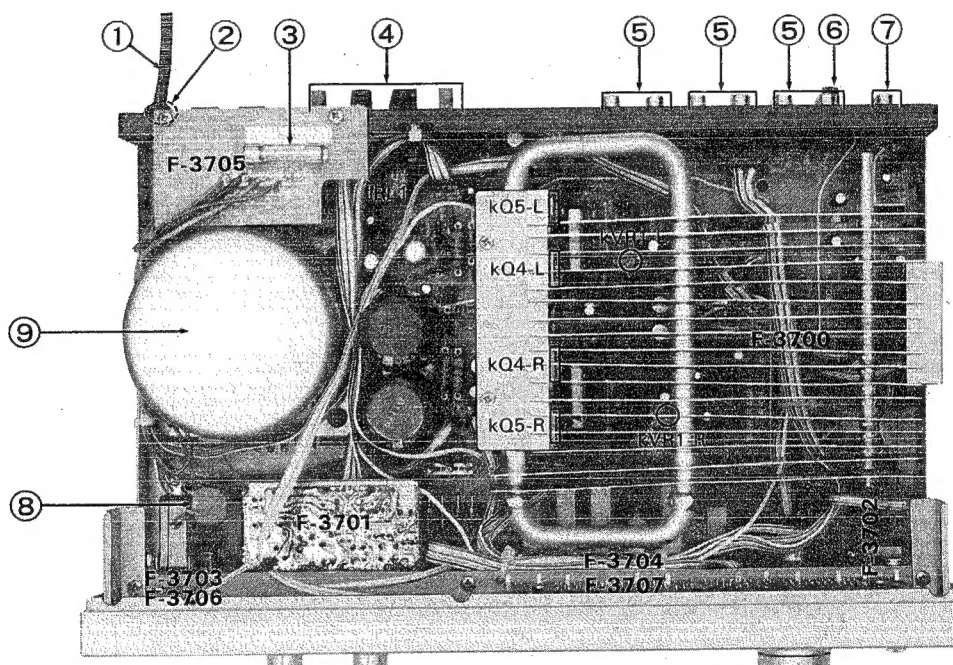


5. OTHER PARTS

5-1. Front View



5-2. Top View



Parts List <Front View>

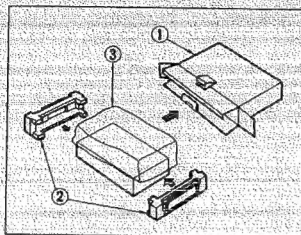
Parts No.	Stock No.	Description
1	07887300	Front Panel Ass'y
2	07828200	Push Knob, } POWER
3	07224300	Push SW., }
4	07884510	Bonnet
5	07831900	Knob, master VR R-ch
6	07832000	Knob, master VR L-ch
7	46170200	100k Ω (B) VR, master
8	07834700	Knob, MIC VR
9	07106701	20k Ω (A) VR, MIC
10	46164600	Jack, MIC
11	07847500	Leg
12	07828800	Push Knob, } LOUDNESS
13	46164900	Push SW., }
14	07828300	Push Knob, } TAPE-1, 2, AUX,
15	46164800	Push SW., } TUNER, PHONO
16	46169300	L.E.D. SEL-1210S
17	07884300	Knob, } TREBLE, BASS
18	46254800	50k Ω VR, }
19	46164700	Jack, PHONES

Parts List <Top View>

Parts No.	Stock No.	Description
1	38004700	Power Supply Cord
2	39106000	Strain Relief
3	07189100	Fuse 5A (120 V)
	07188700	Fuse 2.5A (240 V)
4	46118300	4P Output Terminal, speaker
5	07249100	4P Input Terminal, TUNER, AUX, TAPE
6	22301500	Gnd Terminal
7	07249000	2P Input Terminal
8	08302600	0.01 μ F 125V C.C.
9	15006901	Power Transformer

6. PACKING LIST

Parts No.	Stock No.	Description
1	07886900	Carton Case
2	07884400	Styrofoam Packing
3	09453300	Vinyl Cover



7. ACCESSORY LIST

Stock No.	Description
46256400	Operating Instruction

Sansui

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